



## EXHIBIT A

	A solid Ti catalyst of Claim 6	A solid Ti catalyst of Claim 1
	<p>a magnesium compound</p> <p>← electron donor (a)</p> <p>↓</p> <p>a solid adduct [ I ]</p> <p>← electron donor (b)</p> <p>← liquid titanium compound</p> <p>↓</p> <p>filtration</p> <p>← electron donor (b) ( eg di-ether)</p> <p>← liquid titanium compound</p> <p>↓</p> <p>filtration</p> <p>a solid Ti catalyst component [S2]</p>	<p>a magnesium compound</p> <p>← electron donor (a)</p> <p>↓</p> <p>a solid adduct [ I ]</p> <p>← electron donor (b)</p> <p>← liquid titanium compound</p> <p>← hydrocarbon solvent</p> <p>↓</p> <p>filtration</p> <p>a solid Ti catalyst component [S1]</p> <p>← electron donor (b)</p> <p>← liquid titanium compound</p> <p>← hydrocarbon solvent</p> <p>↓</p> <p>a solid Ti catalyst component [S3]</p>
	<p>a solid Ti catalyst component [s1] or [S2] or [S3]</p> <p>↓</p> <p>electron donor (c)      organo metallic compound [M]</p> <p>↓</p> <p>olefin polymerization catalyst</p>	
Novelty	<p>1) hydrocarbon solvent is not used</p> <p>2) compound [ I ] and liquid titanium compound are contacted two times or more in a suspended state.</p>	<p>1) compound [ I ] and liquid titanium compound are contacted in a hydrocarbon solvent in a suspended state.</p>
Inventive Step	<p>1) catalyst activity for polymerization is high</p> <p>2) bulk density of product polymer is high.</p> <p>3) stereoregularity of polymerization is high.</p>	